

SAFETY DATA SHEET

Based upon Regulation (EC) No 1907/2006, as amended by Regulation (EU) No 2020/878

SURFACE SCRUB

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name : SURFACE SCRUB
Registration number REACH : Not applicable (mixture)
Product type REACH : Mixture

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1 Relevant identified uses

Detergent according to Regulation (EC) No 648/2004
Polishing agent

1.2.2 Uses advised against

No uses advised against known

1.3. Details of the supplier of the safety data sheet

Supplier of the safety data sheet

Novatio*
Industrielaan 5B
B-2250 Olen
☎ +32 14 25 76 40
☎ +32 14 22 02 66
info@novatio.be
*NOVATIO is a registered trademark of Novatech International N.V.

Manufacturer of the product

Novatech International N.V.
Industrielaan 5B
B-2250 Olen
☎ +32 14 85 97 37
☎ +32 14 85 97 38
info@novatech.be

1.4. Emergency telephone number

24h/24h (Telephone advice: English, French, German, Dutch) :
+32 14 58 45 45 (BIG)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

| Class | Category | Hazard statements |
|-----------------|------------|--|
| Skin Irrit. | category 2 | H315: Causes skin irritation. |
| Aquatic Chronic | category 3 | H412: Harmful to aquatic life with long lasting effects. |

2.2. Label elements



| | |
|---------------------|---|
| Signal word | Warning |
| H-statements | |
| H315 | Causes skin irritation. |
| H412 | Harmful to aquatic life with long lasting effects. |
| P-statements | |
| P280 | Wear protective gloves, protective clothing and eye protection/face protection. |
| P264 | Wash hands thoroughly after handling. |
| P273 | Avoid release to the environment. |
| P321 | Specific treatment (see information on this label). |
| P302 + P352 | IF ON SKIN: Wash with plenty of water and soap. |
| P332 + P313 | IF skin irritation occurs: Get medical advice/attention. |

2.3. Other hazards

SURFACE SCRUB

Caution! Substance is absorbed through the skin

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name REACH Registration No | CAS No EC No List No | Conc. (C) | Classification according to CLP | Note | Remark | M-factors and ATE |
|--|----------------------------|-----------|--|---------------|-------------|----------------------|
| Kerosine (petroleum), hydrodesulfurized 01-2119462828-25 | 64742-81-0 265-184-9 | C≤20% | Flam. Liq. 3; H226 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Chronic 2; H411 | (1)(2)(6)(10) | Constituent | |
| hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, < 2% aromatics 01-2119457736-27 | 927-632-8 | C≤10% | Asp. Tox. 1; H304 EUH066 | (1)(10) | Constituent | |
| isotridecanol, ethoxylated | 69011-36-5 500-241-6 | C≤1% | Eye Dam. 1; H318 | (1) | Constituent | |

(1) For H- and EUH-statements in full: see section 16

(2) Substance with a Community workplace exposure limit

(6) Enumerated in Annex VI of Regulation (EC) No. 1272/2008 but the classification has been adapted after evaluation of available test data

(10) Subject to restrictions of Annex XVII of Regulation (EC) No. 1907/2006

Note: numbers 9xx-xxx-x are provisional list numbers assigned by Echa pending an official EC inventory number

SECTION 4: First aid measures

4.1. Description of first aid measures

General:

Observe (own) safety. If possible, approach victim and check vital functions. In case of injury and/or intoxication, call the European emergency number 112. Treat symptoms starting with most life-threatening injuries and disorders. Keep victim under observation, possibility of delayed symptoms.

After inhalation:

Remove victim into fresh air. In case of respiratory problems, consult a doctor/medical service.

After skin contact:

If possible, wipe up/dry remove chemical. Then rinse/shower immediately with (lukewarm) water. If irritation persists, consult a doctor/medical service.

After eye contact:

Rinse immediately with (lukewarm) water. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, consult a doctor/medical service.

After ingestion:

Rinse mouth with water. If you feel unwell, consult a doctor/medical service. Do not wait for symptoms to occur to consult Poison Center.

4.2. Most important symptoms and effects, both acute and delayed

4.2.1 Acute symptoms

After inhalation:

No effects known.

After skin contact:

Tingling/irritation of the skin.

After eye contact:

No effects known.

After ingestion:

Headache. Vomiting. Nausea. Diarrhoea.

4.2.2 Delayed symptoms

No effects known.

4.3. Indication of any immediate medical attention and special treatment needed

If applicable and available it will be listed below.

SECTION 5: Firefighting measures

5.1. Extinguishing media

5.1.1 Suitable extinguishing media:

Small fire: Quick-acting ABC powder extinguisher, Quick-acting BC powder extinguisher, Quick-acting class B foam extinguisher, Quick-acting CO2 extinguisher.

Major fire: Class B foam (not alcohol-resistant).

5.1.2 Unsuitable extinguishing media:

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2 / 13

SURFACE SCRUB

Small fire: Water (quick-acting extinguisher, reel); risk of puddle expansion.

Major fire: Water; risk of puddle expansion.

5.2. Special hazards arising from the substance or mixture

Upon combustion: CO and CO₂ are formed.

5.3. Advice for firefighters

5.3.1 Instructions:

If exposed to fire cool the closed containers by spraying with water. Take account of environmentally hazardous firefighting water. Use water moderately and if possible collect or contain it.

5.3.2 Special protective equipment for fire-fighters:

Gloves (EN 374). Face shield (EN 166). Protective clothing (EN 14605 or EN 13034). Heat/fire exposure: self-contained breathing apparatus (EN 136 + EN 137).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No naked flames. Exposure to fire/heat: keep upwind. Exposure to fire/heat: have neighbourhood close doors and windows.

6.1.1 Protective equipment for non-emergency personnel

See section 8.2

6.1.2 Protective equipment for emergency responders

Gloves (EN 374). Face shield (EN 166). Protective clothing (EN 14605 or EN 13034).

Suitable protective clothing

See section 8.2

6.2. Environmental precautions

Contain released product. Dam up the liquid spill. Prevent soil and water pollution. Prevent spreading in sewers.

6.3. Methods and material for containment and cleaning up

Take up liquid spill into inert absorbent material. Scoop absorbed substance into closing containers. Carefully collect the spill/leftovers. Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

6.4. Reference to other sections

See section 13.

SECTION 7: Handling and storage

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

7.1. Precautions for safe handling

Keep away from naked flames/heat. Gas/vapour heavier than air at 20°C. Observe normal hygiene standards. Keep container tightly closed. Do not discharge the waste into the drain.

7.2. Conditions for safe storage, including any incompatibilities

7.2.1 Safe storage requirements:

Storage temperature: < 50 °C. Meet the legal requirements. Keep container in a well-ventilated place. Protect against frost. Keep out of direct sunlight. Keep container tightly closed.

7.2.2 Keep away from:

Heat sources, oxidizing agents, reducing agents, (strong) acids, (strong) bases.

7.2.3 Suitable packaging material:

No data available

7.2.4 Non suitable packaging material:

No data available

7.3. Specific end use(s)

If applicable and available, exposure scenarios are attached in annex. See information supplied by the manufacturer.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 Occupational exposure

a) Occupational exposure limit values

If limit values are applicable and available these will be listed below.

Belgium

| | | |
|---|--|-----------------------|
| Carburant pour les moteurs à réaction (en vapeur d'hydrocarbure total) : application limitée aux conditions d'exposition aux aérosols négligeable | Time-weighted average exposure limit 8 h | 200 mg/m ³ |
|---|--|-----------------------|

USA (TLV-ACGIH)

| | | |
|--|--|---------------------------|
| Kerosene/Jet fuels, as total hydrocarbon vapor | Time-weighted average exposure limit 8 h (TLV - Adopted Value) | 200 mg/m ³ (P) |
|--|--|---------------------------|

(P): Application restricted to conditions in which there are negligible aerosol exposures

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3 / 13

SURFACE SCRUB

b) National biological limit values

If limit values are applicable and available these will be listed below.

8.1.2 Sampling methods

If applicable and available it will be listed below.

8.1.3 Applicable limit values when using the substance or mixture as intended

If limit values are applicable and available these will be listed below.

8.1.4 Threshold values

If applicable and available it will be listed below.

8.1.5 Control banding

If applicable and available it will be listed below.

8.2. Exposure controls

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

8.2.1 Appropriate engineering controls

Keep away from naked flames/heat. Measure the concentration in the air regularly. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.

8.2.2 Individual protection measures, such as personal protective equipment

Observe normal hygiene standards. Do not eat, drink or smoke during work.

a) Respiratory protection:

Full face mask with filter type A at conc. in air > exposure limit.

b) Hand protection:

Protective gloves against chemicals (EN 374).

| Materials | Measured breakthrough time | Thickness | Protection index | Remark |
|----------------|----------------------------|-----------|------------------|--------|
| nitrile rubber | > 480 minutes | 0.35 mm | Class 6 | |

c) Eye protection:

Face shield (EN 166).

d) Skin protection:

Protective clothing (EN 14605 or EN 13034).

8.2.3 Environmental exposure controls:

See sections 6.2, 6.3 and 13

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---------------------------|-------------------------------------|
| Physical form | Liquid |
| Odour | Characteristic odour |
| Odour threshold | No data available in the literature |
| Colour | White |
| Particle size | Not applicable (liquid) |
| Explosion limits | 0.6 - 19 vol % |
| Flammability | Not classified as flammable |
| Log Kow | Not applicable (mixture) |
| Dynamic viscosity | 8000 mPa.s ; 20 °C |
| Kinematic viscosity | 5993 mm ² /s ; 40 °C |
| Melting point | No data available in the literature |
| Boiling point | 100 °C - 360 °C |
| Relative vapour density | No data available in the literature |
| Vapour pressure | 0.02 hPa ; 20 °C |
| Solubility | Water ; insoluble |
| Relative density | 1.33 ; 20 °C |
| Absolute density | 1335 kg/m ³ ; 20 °C |
| Decomposition temperature | No data available in the literature |
| Auto-ignition temperature | 370 °C |
| Flash point | 56 °C ; Not sustaining combustion |
| pH | 8.0 |

9.2. Other information

| | |
|------------------|---------------------|
| Evaporation rate | 0.3 ; Butyl acetate |
|------------------|---------------------|

SECTION 10: Stability and reactivity

10.1. Reactivity

Heating increases the fire hazard.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No data available.

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4 / 13

SURFACE SCRUB

10.4. Conditions to avoid

Precautionary measures

Keep away from naked flames/heat.

10.5. Incompatible materials

Oxidizing agents, reducing agents, (strong) acids, (strong) bases.

10.6. Hazardous decomposition products

Upon combustion: CO and CO₂ are formed.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

11.1.1 Test results

Acute toxicity

SURFACE SCRUB

No (test) data on the mixture available

Judgement is based on the relevant ingredients

Kerosine (petroleum), hydrodesulfurized

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Value determination | Remark |
|----------------------|-----------|------------------------|-----------------|---------------|------------------------|---------------------|--------|
| Oral | LD50 | Equivalent to OECD 420 | > 5000 mg/kg bw | | Rat (male / female) | Read-across | |
| Dermal | LD50 | Equivalent to OECD 402 | > 2000 mg/kg bw | 24 h | Rabbit (male / female) | Read-across | |
| Inhalation (vapours) | LC50 | Equivalent to OECD 403 | > 5.28 mg/l air | 4 h | Rat (male / female) | Read-across | |

hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, < 2% aromatics

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Value determination | Remark |
|----------------------|-----------|------------------------|-----------------|---------------|------------------------|---------------------|--------|
| Oral | LC0 | Equivalent to OECD 401 | > 5000 mg/kg bw | | Rat (male / female) | Experimental value | |
| Dermal | LD50 | Equivalent to OECD 402 | > 3160 mg/kg bw | 24 h | Rabbit (male / female) | Experimental value | |
| Inhalation (aerosol) | LC50 | Equivalent to OECD 403 | > 5.27 mg/l air | 4 h | Rat (male / female) | Experimental value | |

Conclusion

Not classified for acute toxicity

Corrosion/irritation

SURFACE SCRUB

No (test) data on the mixture available

Classification is based on the relevant ingredients

Kerosine (petroleum), hydrodesulfurized

| Route of exposure | Result | Method | Exposure time | Time point | Species | Value determination | Remark |
|-------------------|----------------|------------------|---------------|------------------|---------|---------------------|------------------|
| Eye | Not irritating | EPA OTS 798.4500 | | | Rabbit | Read-across | Single treatment |
| Skin | Irritating | | 24 h | 24; 48; 72 hours | Rabbit | Read-across | |

hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, < 2% aromatics

| Route of exposure | Result | Method | Exposure time | Time point | Species | Value determination | Remark |
|-------------------|----------------|----------|---------------|------------------|---------|---------------------|-------------------------------|
| Eye | Not irritating | OECD 405 | 24 h | 24; 48; 72 hours | Rabbit | Experimental value | Single treatment with rinsing |
| Skin | Not irritating | OECD 404 | 4 h | 24; 48; 72 hours | Rabbit | Experimental value | |

isotridecanol, ethoxylated

| Route of exposure | Result | Method | Exposure time | Time point | Species | Value determination | Remark |
|-------------------|--------------------|----------|---------------|------------------|---------|---------------------|--------|
| Eye | Serious eye damage | OECD 405 | | 24; 48; 72 hours | Rabbit | Experimental value | |

Conclusion

Causes skin irritation.

Not classified as irritating to the eyes

Not classified as irritating to the respiratory system

Respiratory or skin sensitisation

SURFACE SCRUB

No (test) data on the mixture available

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Date of revision: 2023-06-08

Revision number: 0500

BIG number: 40044

5 / 13

SURFACE SCRUB

Judgement is based on the relevant ingredients

Kerosine (petroleum), hydrodesulfurized

| Route of exposure | Result | Method | Exposure time | Observation time point | Species | Value determination | Remark |
|-------------------|-----------------|------------------------|---------------|------------------------|-------------------|---------------------|--------|
| Skin | Not sensitizing | Equivalent to OECD 406 | | | Guinea pig (male) | Read-across | |

hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, < 2% aromatics

| Route of exposure | Result | Method | Exposure time | Observation time point | Species | Value determination | Remark |
|-------------------|-----------------|------------------------|---------------|------------------------|---------------------|---------------------|--------|
| Skin | Not sensitizing | Equivalent to OECD 406 | | | Guinea pig (female) | Experimental value | |

Conclusion

Not classified as sensitizing for skin

Not classified as sensitizing for inhalation

Specific target organ toxicity

SURFACE SCRUB

No (test)data on the mixture available

Judgement is based on the relevant ingredients

Kerosine (petroleum), hydrodesulfurized

| Route of exposure | Parameter | Method | Value | Organ | Effect | Exposure time | Species | Value determination |
|----------------------|-----------|------------------------|------------------------------|-------|-----------------------|------------------------------------|---------------------|---------------------|
| Oral (stomach tube) | NOAEL | Equivalent to OECD 408 | 750 mg/kg bw/day | | No effect | 21 week(s) | Rat (female) | Read-across |
| Dermal | NOAEL | Equivalent to OECD 411 | ≥ 495 mg/kg bw/day | | No effect | 13 weeks (6h / day, 5 days / week) | Rat (male / female) | Read-across |
| Inhalation (vapours) | NOAEL | Equivalent to OECD 413 | > 1000 mg/m ³ air | | No effect | 90 days (continuous) | Rat (female) | Read-across |
| Inhalation | | | STOT SE cat.3 | | Drowsiness, dizziness | | | Literature study |

hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, < 2% aromatics

| Route of exposure | Parameter | Method | Value | Organ | Effect | Exposure time | Species | Value determination |
|----------------------|------------------------|------------------------|---------------------|-------|-----------------------------|------------------------------------|---------------------|---------------------|
| Oral (stomach tube) | NOAEL | Equivalent to OECD 408 | ≥ 5000 mg/kg bw/day | | No effect | 13 weeks (daily) | Rat (male / female) | Experimental value |
| Dermal | NOAEL systemic effects | Equivalent to OECD 411 | > 495 mg/kg bw/day | | No adverse systemic effects | 13 weeks (5 days / week) | Rat (male / female) | Experimental value |
| Inhalation (vapours) | NOAEC | OECD 413 | 30 mg/l air | | No effect | 13 weeks (6h / day, 5 days / week) | Rat (male / female) | Experimental value |

Conclusion

Not classified for subchronic toxicity

Mutagenicity (in vitro)

SURFACE SCRUB

No (test)data on the mixture available

Judgement is based on the relevant ingredients

Kerosine (petroleum), hydrodesulfurized

| Result | Method | Test substrate | Effect | Value determination | Remark |
|---|------------------------|-------------------------------|-----------|---------------------|--------|
| Negative with metabolic activation, negative without metabolic activation | Equivalent to OECD 476 | Mouse (lymphoma L5178Y cells) | No effect | Read-across | |
| Negative with metabolic activation, negative without metabolic activation | Equivalent to OECD 471 | Bacteria (S.typhimurium) | No effect | Read-across | |

SURFACE SCRUB

hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, < 2% aromatics

| Result | Method | Test substrate | Effect | Value determination | Remark |
|---|------------------------|-------------------------------|-----------|---------------------|--------|
| Negative with metabolic activation, negative without metabolic activation | Equivalent to OECD 471 | Bacteria (S.typhimurium) | No effect | Experimental value | |
| Negative with metabolic activation, negative without metabolic activation | Equivalent to OECD 476 | Mouse (lymphoma L5178Y cells) | No effect | Experimental value | |
| Negative with metabolic activation, negative without metabolic activation | Equivalent to OECD 473 | Chinese hamster ovary (CHO) | No effect | Experimental value | |

Mutagenicity (in vivo)

SURFACE SCRUB

No (test)data on the mixture available

Judgement is based on the relevant ingredients

Kerosine (petroleum), hydrodesulfurized

| Result | Method | Exposure time | Test substrate | Organ | Value determination |
|----------------------------|------------------------|---------------|----------------|-------|---------------------|
| Positive (Intraperitoneal) | Equivalent to OECD 479 | | Mouse (male) | | Read-across |
| Negative (Intraperitoneal) | Equivalent to OECD 479 | | Mouse (female) | | Read-across |

hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, < 2% aromatics

| Result | Method | Exposure time | Test substrate | Organ | Value determination |
|----------------------------|------------------------|---------------|---------------------|-------|---------------------|
| Negative (Intraperitoneal) | Equivalent to OECD 475 | | Rat (male / female) | | Experimental value |

Conclusion

Not classified for mutagenic or genotoxic toxicity

Carcinogenicity

SURFACE SCRUB

No (test)data on the mixture available

Judgement is based on the relevant ingredients

Kerosine (petroleum), hydrodesulfurized

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
|-------------------|-----------|------------------------|-------|---------------|--------------|-----------------|-------|---------------------|
| Dermal | | Equivalent to OECD 451 | | 104 week(s) | Mouse (male) | Tumor formation | Skin | Read-across |

hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, < 2% aromatics

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
|-------------------|-----------|--------|-------|---------------|---------|--------|-------|---------------------|
| Unknown | | | | | | | | Data waiving |

Conclusion

Not classified for carcinogenicity

Reproductive toxicity

SURFACE SCRUB

No (test)data on the mixture available

Judgement is based on the relevant ingredients

Kerosine (petroleum), hydrodesulfurized

| | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
|--|-----------|------------------------|---------------------|-------------------------|--------------|---------------------------|--------|---------------------|
| Developmental toxicity (Oral (stomach tube)) | NOAEL | OECD 414 | 1000 mg/kg bw/day | 10 day(s) | Rat | No effect | Foetus | Read-across |
| | LOAEL | OECD 414 | 1500 mg/kg bw/day | 10 day(s) | Rat | Reduced fetal bodyweights | Foetus | Read-across |
| Maternal toxicity (Oral (stomach tube)) | NOAEL | OECD 414 | 500 mg/kg bw/day | 10 day(s) | Rat | No effect | | Read-across |
| | LOAEL | OECD 414 | 1000 mg/kg bw/day | 10 day(s) | Rat | Maternal toxicity | | Read-across |
| Effects on fertility (Oral (stomach tube)) | NOAEL | Equivalent to OECD 415 | ≥ 1500 mg/kg bw/day | 21 week(s) | Rat (female) | No effect | | Read-across |
| | NOAEL | Equivalent to OECD 415 | ≥ 3000 mg/kg bw/day | 10 week(s) - 13 week(s) | Rat (male) | No effect | | Read-across |

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7 / 13

SURFACE SCRUB

hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, < 2% aromatics

| | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
|--|-----------|----------|---------------------|---------------|---------------------|-----------|--------|---------------------|
| Developmental toxicity (Oral (stomach tube)) | NOAEL | OECD 414 | > 1000 mg/kg bw/day | 10 day(s) | Rat | No effect | Foetus | Experimental value |
| Maternal toxicity (Oral (stomach tube)) | NOAEL | OECD 414 | > 1000 mg/kg bw/day | 10 day(s) | Rat | No effect | | Experimental value |
| Effects on fertility (Oral (stomach tube)) | NOAEL | OECD 416 | ≥ 750 mg/kg bw/day | | Rat (male / female) | No effect | | Experimental value |

Conclusion

Not classified for reprotoxic or developmental toxicity

Aspiration hazard

Judgement is based on the relevant ingredients

Not classified for aspiration toxicity

Toxicity other effects

SURFACE SCRUB

hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, < 2% aromatics

| Route of exposure | Parameter | Method | Value | Organ | Effect | Exposure time | Species | Value determination |
|-------------------|-----------|--------|-------|-------|--------------------------|---------------|---------|---------------------|
| Skin | | | | Skin | Skin dryness or cracking | | | Literature study |

Chronic effects from short and long-term exposure

SURFACE SCRUB

No effects known.

11.2. Information on other hazards

No evidence of endocrine disrupting properties

SECTION 12: Ecological information

12.1. Toxicity

SURFACE SCRUB

No (test)data on the mixture available

Classification is based on the relevant ingredients

Kerosine (petroleum), hydrodesulfurized

| | Parameter | Method | Value | Duration | Species | Test design | Fresh/salt water | Value determination |
|---|-----------|------------------------|-----------------|-----------|---------------------------|--------------------|------------------|----------------------------------|
| Acute toxicity fishes | LL50 | OECD 203 | 2 mg/l - 5 mg/l | 96 h | Oncorhynchus mykiss | Semi-static system | Fresh water | Experimental value; GLP |
| Acute toxicity crustacea | EL50 | OECD 202 | 1.4 mg/l | 48 h | Daphnia magna | Static system | Fresh water | Experimental value; GLP |
| Toxicity algae and other aquatic plants | EL50 | OECD 201 | 1 mg/l - 3 mg/l | 72 h | Selenastrum capricornutum | Static system | Fresh water | Experimental value; Cell numbers |
| Long-term toxicity aquatic crustacea | NOEL | Equivalent to OECD 211 | 0.48 mg/l | 21 day(s) | Daphnia magna | Semi-static system | Fresh water | Experimental value; Reproduction |

hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, < 2% aromatics

| | Parameter | Method | Value | Duration | Species | Test design | Fresh/salt water | Value determination |
|---|-----------|------------------------|-------------|-----------|----------------------|--------------------|------------------|----------------------------------|
| Acute toxicity fishes | LL50 | Equivalent to OECD 203 | > 1028 mg/l | 96 h | Scophthalmus maximus | Semi-static system | Salt water | Experimental value; GLP |
| Acute toxicity crustacea | LL50 | ISO 14669 | > 3193 mg/l | 48 h | Acartia tonsa | Static system | Salt water | Experimental value; GLP |
| Toxicity algae and other aquatic plants | EL50 | ISO 10253 | > 3200 mg/l | 72 h | Skeletonema costatum | Static system | Salt water | Experimental value; Growth rate |
| | NOELR | ISO 10253 | 993 mg/l | 72 h | Skeletonema costatum | Static system | Salt water | Experimental value; Growth rate |
| Long-term toxicity fish | NOELR | | > 1000 mg/l | 28 day(s) | Oncorhynchus mykiss | | Fresh water | QSAR; Growth rate |
| Long-term toxicity aquatic crustacea | NOELR | | 5 mg/l | 21 day(s) | Daphnia magna | Semi-static system | Fresh water | Experimental value; Reproduction |
| Toxicity aquatic micro-organisms | EC50 | OECD 209 | > 100 mg/l | 3 h | Activated sludge | Static system | Fresh water | Experimental value; GLP |

Conclusion

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8 / 13

SURFACE SCRUB

Harmful to aquatic life with long lasting effects.

12.2. Persistence and degradability

Kerosine (petroleum), hydrodesulfurized

Biodegradation water

| Method | Value | Duration | Value determination |
|-----------|--------|-----------|---------------------|
| OECD 301F | 58.6 % | 28 day(s) | Experimental value |

hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Biodegradation water

| Method | Value | Duration | Value determination |
|-----------|-----------|-----------|---------------------|
| OECD 301F | 82 %; GLP | 24 day(s) | Experimental value |

Conclusion

Water

The surfactant(s) is/are biodegradable according to Regulation (EC) No 648/2004

12.3. Bioaccumulative potential

SURFACE SCRUB

Log Kow

| Method | Remark | Value | Temperature | Value determination |
|--------|--------------------------|-------|-------------|---------------------|
| | Not applicable (mixture) | | | |

Kerosine (petroleum), hydrodesulfurized

Log Kow

| Method | Remark | Value | Temperature | Value determination |
|--------|--------|-------|-------------|---------------------|
| | | 6.10 | | Experimental value |

hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, < 2% aromatics

BCF fishes

| Parameter | Method | Value | Duration | Species | Value determination |
|-----------|--------------|---------|----------|---------|---------------------|
| BCF | BCFBAF v3.00 | 22 l/kg | | Pisces | QSAR |

Log Kow

| Method | Remark | Value | Temperature | Value determination |
|--------|-------------------------------------|-------|-------------|---------------------|
| | No data available in the literature | | | |

Conclusion

Contains bioaccumulative component(s)

12.4. Mobility in soil

Kerosine (petroleum), hydrodesulfurized

Percent distribution

| Method | Fraction air | Fraction biota | Fraction sediment | Fraction soil | Fraction water | Value determination |
|--------------------------|--------------|----------------|-------------------|---------------|----------------|---------------------|
| Fugacity Model Level III | 22.4 % | | 6.15 % | 2.51 % | 69 % | Calculated value |

hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Percent distribution

| Method | Fraction air | Fraction biota | Fraction sediment | Fraction soil | Fraction water | Value determination |
|------------------|--------------|----------------|-------------------|---------------|----------------|---------------------|
| Mackay level III | 4.1 % | | 89 % | 7 % | 0.34 % | Calculated value |

Conclusion

Contains component(s) with potential for mobility in the soil

12.5. Results of PBT and vPvB assessment

Due to insufficient data no statement can be made whether the component(s) fulfil(s) the criteria of PBT and vPvB according to Annex XIII of Regulation (EC) No 1907/2006.

12.6. Endocrine disrupting properties

No evidence of endocrine disrupting properties

12.7. Other adverse effects

SURFACE SCRUB

Greenhouse gases

None of the known components is included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014)

Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009)

Kerosine (petroleum), hydrodesulfurized

Groundwater

Groundwater pollutant

SURFACE SCRUB

SECTION 13: Disposal considerations

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

13.1. Waste treatment methods

13.1.1 Provisions relating to waste

European Union

Hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997. Waste material code (Directive 2008/98/EC, Decision 2000/0532/EC).

20 01 29* (separately collected fractions (except 15 01): detergents containing hazardous substances). Depending on branch of industry and production process, also other waste codes may be applicable.

13.1.2 Disposal methods

Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste.

Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Do not discharge into drains or the environment. Dispose of at authorized waste collection point.

13.1.3 Packaging/Container

European Union

Waste material code packaging (Directive 2008/98/EC).

15 01 10* (packaging containing residues of or contaminated by dangerous substances).

SECTION 14: Transport information

Road (ADR)

14.1. UN number

| | |
|-----------|-------------|
| Transport | Not subject |
|-----------|-------------|

14.2. UN proper shipping name

14.3. Transport hazard class(es)

| | |
|------------------------------|--|
| Hazard identification number | |
| Class | |
| Classification code | |

14.4. Packing group

| | |
|---------------|--|
| Packing group | |
| Labels | |

14.5. Environmental hazards

| | |
|--|----|
| Environmentally hazardous substance mark | no |
|--|----|

14.6. Special precautions for user

| | |
|--------------------|---|
| Special provisions | |
| Limited quantities | |
| Specific mention | Substances having a flash-point > 35 °C (and < 60 °C) which do not sustain combustion are not substances of Class 3 |

Rail (RID)

14.1. UN number

| | |
|-----------|-------------|
| Transport | Not subject |
|-----------|-------------|

14.2. UN proper shipping name

14.3. Transport hazard class(es)

| | |
|------------------------------|--|
| Hazard identification number | |
| Class | |
| Classification code | |

14.4. Packing group

| | |
|---------------|--|
| Packing group | |
| Labels | |

14.5. Environmental hazards

| | |
|--|----|
| Environmentally hazardous substance mark | no |
|--|----|

14.6. Special precautions for user

| | |
|--------------------|---|
| Special provisions | |
| Limited quantities | |
| Specific mention | Substances having a flash-point > 35 °C (and < 60 °C) which do not sustain combustion are not substances of Class 3 |

Inland waterways (ADN)

14.1. UN number/ID number

| | |
|-----------|-------------|
| Transport | Not subject |
|-----------|-------------|

14.2. UN proper shipping name

14.3. Transport hazard class(es)

| | |
|---------------------|--|
| Class | |
| Classification code | |

14.4. Packing group

| | |
|---------------|--|
| Packing group | |
|---------------|--|

SURFACE SCRUB

| | |
|--|---|
| Labels | |
| 14.5. Environmental hazards | |
| Environmentally hazardous substance mark | no |
| 14.6. Special precautions for user | |
| Special provisions | |
| Limited quantities | |
| Specific mention | Substances having a flash-point > 35 °C (and < 60 °C) which do not sustain combustion are not substances of Class 3 |

Sea (IMDG/IMSBC)

| | |
|---|---|
| 14.1. UN number | |
| Transport | Not subject |
| 14.2. UN proper shipping name | |
| 14.3. Transport hazard class(es) | |
| Class | |
| 14.4. Packing group | |
| Packing group | |
| Labels | |
| 14.5. Environmental hazards | |
| Marine pollutant | |
| Environmentally hazardous substance mark | no |
| 14.6. Special precautions for user | |
| Special provisions | |
| Limited quantities | |
| Specific mention | Substances having a flash-point > 35 °C (and < 60 °C) which do not sustain combustion are not substances of Class 3 |
| 14.7. Maritime transport in bulk according to IMO instruments | |
| Annex II of MARPOL 73/78 | Not applicable, based on available data |

Air (ICAO-TI/IATA-DGR)

| | |
|--|---|
| 14.1. UN number/ID number | |
| Transport | Not subject |
| 14.2. UN proper shipping name | |
| 14.3. Transport hazard class(es) | |
| Class | |
| 14.4. Packing group | |
| Packing group | |
| Labels | |
| 14.5. Environmental hazards | |
| Environmentally hazardous substance mark | no |
| 14.6. Special precautions for user | |
| Special provisions | |
| Specific mention | Substances having a flash-point > 35 °C (and < 60 °C) which do not sustain combustion are not substances of Class 3 |
| Passenger and cargo transport | |
| Limited quantities: maximum net quantity per packaging | |

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

European legislation:

VOC content Directive 2010/75/EU

| VOC content | Remark |
|-------------|--------|
| 22.000 % | |
| 293.700 g/l | |

Directive 2012/18/EU (Seveso III)

Threshold values under special circumstances

| Substance or category | Special circumstances | Low tier (tonnes) | Top tier (tonnes) | Group | For this substance or mixture the summation rule has to be applied for: |
|-----------------------|--|-------------------|-------------------|-------|---|
| P5b FLAMMABLE LIQUIDS | Particular processing conditions, such as high pressure or high temperature, may create major-accident hazards | 50 | 200 | None | Flammability |
| P5a FLAMMABLE LIQUIDS | Maintained at a temperature above the boiling point | 10 | 50 | None | Flammability |

Ingredients according to Regulation (EC) No 648/2004 and amendments

5-15% aromatic hydrocarbons, 5-15% aliphatic hydrocarbons, <5% non-ionic surfactants, tetramethylol acetylenediurea

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11 / 13

SURFACE SCRUB

REACH Annex XVII - Restriction

Contains component(s) subject to restrictions of Annex XVII of Regulation (EC) No 1907/2006: restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.

| | Designation of the substance, of the group of substances or of the mixture | Conditions of restriction |
|--|--|---|
| · Kerosine (petroleum), hydrodesulfurized · hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, < 2% aromatics | Liquid substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: (a) hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F; (b) hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10; (c) hazard class 4.1; (d) hazard class 5.1. | 1. Shall not be used in: — ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays, — tricks and jokes, — games for one or more participants, or any article intended to be used as such, even with ornamental aspects, 2. Articles not complying with paragraph 1 shall not be placed on the market. 3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they: — can be used as fuel in decorative oil lamps for supply to the general public, and, — present an aspiration hazard and are labelled with H304, 4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN). 5. Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of dangerous substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met: a) lamp oils, labelled with H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach of children"; and, by 1 December 2010, "Just a sip of lamp oil — or even sucking the wick of lamps — may lead to life-threatening lung damage"; b) grill lighter fluids, labelled with H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: "Just a sip of grill lighter may lead to life threatening lung damage"; c) lamp oils and grill lighters, labelled with H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010. |
| · Kerosine (petroleum), hydrodesulfurized | Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to that Regulation or not. | 1. Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following: — metallic glitter intended mainly for decoration, — artificial snow and frost, — "whoopee" cushions, — silly string aerosols, — imitation excrement, — horns for parties, — decorative flakes and foams, — artificial cobwebs, — stink bombs. 2. Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with: "For professional users only". 3. By way of derogation, paragraphs 1 and 2 shall not apply to the aerosol dispensers referred to Article 8 (1a) of Council Directive 75/ 324/EEC. 4. The aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the market unless they conform to the requirements indicated. |

National legislation Belgium

SURFACE SCRUB

No data available

Kerosine (petroleum), hydrodesulfurized

| | |
|-----------------|--|
| Résorption peau | Carburant pour les moteurs à réaction (en vapeur d'hydrocarbure total) : application limitée aux conditions d'exposition aux aérosols négligeable; D; La mention "D" signifie que la résorption de l'agent, via la peau, les muqueuses ou les yeux, constitue une partie importante de l'exposition totale. Cette résorption peut se faire tant par contact direct que par présence de l'agent dans l'air. |
|-----------------|--|

National legislation The Netherlands

SURFACE SCRUB

| | |
|----------------------|---|
| Waterbezwaarlijkheid | A (3); Algemene Beoordelingsmethodiek (ABM) |
|----------------------|---|

National legislation France

SURFACE SCRUB

No data available

National legislation Germany

SURFACE SCRUB

| | |
|---|--|
| WGK | 1; Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) - 18. April 2017 |
| Kerosine (petroleum), hydrodesulfurized | |
| TA-Luft | 5.2.5/I |
| hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, < 2% aromatics | |
| TA-Luft | 5.2.5 |

National legislation Austria

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12 / 13

SURFACE SCRUB

SURFACE SCRUB

No data available

National legislation United Kingdom

SURFACE SCRUB

No data available

Other relevant data

SURFACE SCRUB

No data available

Kerosine (petroleum), hydrodesulfurized

| | |
|-----------------------|--|
| TLV - Skin absorption | Kerosene/Jet fuels, as total hydrocarbon vapor; Skin; Danger of cutaneous absorption |
| TLV - Carcinogen | Kerosene/Jet fuels, as total hydrocarbon vapor; A3 |

15.2. Chemical safety assessment

No chemical safety assessment is required for a mixture.

SECTION 16: Other information

Full text of any H- and EUH-statements referred to under section 3:

H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.
EUH066 Repeated exposure may cause skin dryness or cracking.

| | |
|--------------|---|
| (*) | INTERNAL CLASSIFICATION BY BIG |
| ADI | Acceptable daily intake |
| AOEL | Acceptable operator exposure level |
| ATE | Acute Toxicity Estimate |
| BCF | Bioconcentration Factor |
| BEI | Biological Exposure Indices |
| CLP (EU-GHS) | Classification, labelling and packaging (Globally Harmonised System in Europe) |
| DMEL | Derived Minimal Effect Level |
| DNEL | Derived No Effect Level |
| EC10 | Effect Concentration 10 % |
| EC50 | Effect Concentration 50 % |
| ErC50 | EC50 in terms of reduction of growth rate |
| GLP | Good Laboratory Practice |
| LC0 | Lethal Concentration 0 % |
| LC50 | Lethal Concentration 50 % |
| LD50 | Lethal Dose 50 % |
| LOAEC/LOAEL | Lowest Observed Adverse Effect Concentration/Lowest Observed Adverse Effect Level |
| NOAEC/NOAEL | No Observed Adverse Effect Concentration/No Observed Adverse Effect Level |
| NOEC/NOEL | No Observed Effect Concentration/No Observed Effect Level |
| OECD | Organisation for Economic Co-operation and Development |
| PBT | Persistent, Bioaccumulative & Toxic |
| PNEC | Predicted No Effect Concentration |
| STP | Sludge Treatment Process |
| vPvB | very Persistent & very Bioaccumulative |

The information in this safety data sheet is based on data and samples provided to BIG. The sheet was written to the best of our ability and according to the state of knowledge at that time. The safety data sheet only constitutes a guideline for the safe handling, use, consumption, storage, transport and disposal of the substances/preparations/mixtures mentioned under point 1. New safety data sheets are written from time to time. Only the most recent versions may be used. Unless indicated otherwise word for word on the safety data sheet, the information does not apply to substances/preparations/mixtures in purer form, mixed with other substances or in processes. The safety data sheet offers no quality specification for the substances/preparations/mixtures in question. Compliance with the instructions in this safety data sheet does not release the user from the obligation to take all measures dictated by common sense, regulations and recommendations or which are necessary and/or useful based on the real applicable circumstances. BIG does not guarantee the accuracy or exhaustiveness of the information provided and cannot be held liable for any changes by third parties. This safety data sheet is only to be used within the European Union, Switzerland, Iceland, Norway and Liechtenstein. Any use outside of this area is at your own risk. Use of this safety data sheet is subject to the licence and liability limiting conditions as stated in your BIG licence agreement or when this is failing the general conditions of BIG. All intellectual property rights to this sheet are the property of BIG and its distribution and reproduction are limited. Consult the mentioned agreement/conditions for details.

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13 / 13